

U.S. Systems Acquisition Trends -Test Implications

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LANDSCAPE

- Threat evolution
- IT explosion
- JV 2010
- Revolution in military affairs (RMA)
- Revolution in business affairs (RBA)
- Defense capabilities initiative (DCI)
- Coalition warfare
- International cooperative programs

RMA

- Interoperability emphasis (US & Allied)
 - Key performance parameter
- System-of-systems approach
 - Capstone requirements
- Information technology explosion
 - System networking
- Mission area orientation
 - Budget implication
 - Program impact

Implications?

- Larger scale testing & evaluation involving multitudes of systems
- Test methods & facilities
- Interoperability assessment
- Test C3I networking and information assurance
- Expanded use of simulation
- Greater use of joint exercises and warfighting experiments

RBA

- Acquisition/MilSpec reform
 - Top-level specs –
(everything else tradeable)
- Cycle time reduction
 - Evolutionary requirements
 - Spiral development
- Total ownership cost reduction
 - O&S cost reduction
 - Life-cycle cost trades
 - Cost in requirements documents
- Open systems architectures
- DoD 5000 rewrite

Implications?

- Test to key parameters
- Continuous test & evaluation
- Early evaluation and testing of support systems
- Subsystem certification

Highlights of the New DoD 5000

- Rapid acquisition with demonstrated technology
- Time-phased requirements and evolutionary development
- Integration of acquisition and logistics
- Integrated test and evaluation
- Interoperability
- Cost as a requirement that drives design, procurement, and support
- Increased competition